

## EAST Search History

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| L1    | 2    | "5376340".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/02 07:00 |
| L2    | 2    | "5017269".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/02 07:00 |
| L3    | 53   | Walker-William-c\$.in.                               | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/11/02 07:19 |
| S1    | 3601 | 110/219,253,255,342,346,110,101R,<br>322.ccls.       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/01 13:28 |
| S2    | 2907 | 110/219,253,255,342,346,110.ccls.                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/02 06:54 |
| S3    | 735  | 110/101R,322.ccls.                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/01 13:29 |
| S4    | 2    | "110"/\$.ccls. and pyrolysis same<br>paddles.clm.    | US-PGPUB   | OR               | ON      | 2007/11/01 13:29 |
| S5    | 81   | 110/219,253,255,342,346,110.ccls.<br>and atomization | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/01 15:18 |
| S6    | 7    | S5 and auger   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/01 15:25 |
| S7    | 14   | S5 and screw   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/11/01 15:55 |

## EAST Search History

|    |    |   |       |    |    |                  |
|----|----|---|-------|----|----|------------------|
| S8 | 13 | ("2886122" "2993843" "3020212" "3098458" "3954069" "4504222" "4917023" "5088424" "5372077" "5376340" "5410973" "5921763" "RE33776").PN. | USPAT | OR | ON | 2007/11/02 07:18 |
|----|----|---|-------|----|----|------------------|

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 643  | Cole-C\$.IN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/02/01 06:56 |
| S2    | 311  | Torres-R\$.IN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/05/25 11:59 |
| S3    | 6    | Torres-Räu\$.IN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/05/25 15:17 |
| S4    | 6    | Cole-Tob\$.IN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/05/25 12:00 |
| S5    | 50   | ("5653183" "5868085" "4308103"<br>"4339999" "4412889" "5307748"<br>"5564351" "5678496" "6182584"<br>"6244198" "6619214" "4244180"<br>"5022848" "6101958" "3926582"<br>"3910207" "3812620" "3787292"<br>"4002438" "4003683" "4172431"<br>"4083751" "4116823" "4268275"<br>"4276274" "4301750" "4308807"<br>"4372226" "4421524" "4453476"<br>"4759300" "4787321" "4797087"<br>"4800824" "4886001" "4945856"<br>"4980092" "5067978" "5225044"<br>"5258101" "5268033" "5279234"<br>"5342421" "5351632" "5366595"<br>"5399181" "5453164" "5611289"<br>"5615627" "5720232").pn. | USPAT   | OR               | ON      | 2005/05/25 12:44 |
| S6    | 29   | "3787292"   | USPAT   | OR               | ON      | 2005/05/25 13:16 |
| S7    | 1    | "1534737".pn.   | USPAT   | OR               | ON      | 2005/05/25 13:16 |
| S8    | 1    | "0353966".pn.   | USPAT   | OR               | ON      | 2005/05/25 13:17 |
| S9    | 1    | "1407372".pn.   | USPAT   | OR               | ON      | 2005/05/25 13:18 |
| S10   | 1    | "2664389".pn.   | USPAT   | OR               | ON      | 2005/05/25 13:19 |
| S11   | 1    | "3162431".pn.   | USPAT   | OR               | ON      | 2005/05/25 13:19 |
| S12   | 1    | "0160649".pn.   | USPAT   | OR               | ON      | 2005/05/25 13:19 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S13 | 580 | 110/246.ccls.                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 13:25 |
| S14 | 43  | "201"/\$.ccls. and paddles                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 15:32 |
| S15 | 41  | "201"/\$.ccls. and paddles                         | USOCR   | OR | ON | 2005/05/25 15:37 |
| S16 | 8   | "201"/\$.ccls. and stirring same arm               | USOCR   | OR | ON | 2005/05/25 15:37 |
| S17 | 3   | "201"/\$.ccls. and stirring same arm<br>same pitch | USOCR   | OR | ON | 2005/05/25 15:38 |
| S18 | 0   | "201"/\$.ccls. and stirring same arm<br>same pitch | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 15:39 |
| S19 | 0   | "202"/\$.ccls. and stirring same arm<br>same pitch | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 15:39 |
| S20 | 3   | "202"/\$.ccls. and paddle same pitch               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 15:40 |
| S21 | 75  | "202"/\$.ccls. and paddle                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 16:00 |
| S22 | 16  | "202"/\$.ccls. and flights and pitch               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 16:04 |
| S23 | 13  | "202"/\$.ccls. and flights and pitch               | USOCR   | OR | ON | 2005/05/25 16:06 |
| S24 | 4   | "201"/\$.ccls. and flights and pitch               | USOCR   | OR | ON | 2005/05/25 16:07 |
| S25 | 10  | "201"/\$.ccls. and flights and pitch               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/25 16:12 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S26 | 219  | 201/40.ccls.                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 07:17 |
| S27 | 748  | 202/117,118,131,136.ccls.                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 07:39 |
| S28 | 1303 | 110/229,250,257,110.ccls.                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 08:08 |
| S29 | 1088 | 110/227,246,226,255.ccls.                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 08:30 |
| S30 | 0    | "110"/\$.ccls. and stirring same arm<br>same pitch | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 08:31 |
| S31 | 188  | "110"/\$.ccls. and paddles                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 08:37 |
| S32 | 77   | "110"/\$.ccls. and paddles                         | USOCR   | OR | ON | 2005/05/26 08:39 |
| S33 | 20   | "110"/\$.ccls. and stirring same arm               | USOCR   | OR | ON | 2005/05/26 08:39 |
| S34 | 26   | "110"/\$.ccls. and stirring same arm               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 08:41 |
| S35 | 0    | "110"/\$.ccls. and stirring same arm<br>same pitch | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 08:41 |
| S36 | 2    | "110"/\$.ccls. and stirring same arm<br>same pitch | USOCR   | OR | ON | 2005/05/26 08:42 |
| S37 | 3    | "110"/\$.ccls. and paddle same pitch               | USOCR   | OR | ON | 2005/05/26 08:42 |

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|     |    |                                       |   |    |    |                  |
|-----|----|---------------------------------------|---|----|----|------------------|
| S38 | 4  | "110"/\$.ccls. and paddle same pitch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 08:43 |
| S39 | 32 | "110"/\$.ccls. and flights same pitch | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 11:29 |
| S40 | 2  | "4759300".pn.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 11:30 |
| S41 | 2  | "5653183".pn.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 11:36 |
| S42 | 2  | "5868085".pn.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 11:37 |
| S43 | 2  | "6619214".pn.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/26 11:37 |
| S44 | 3  | "3787292".pn.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/07 07:56 |
| S45 | 2  | "4084521".pn.                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/02/07 07:56 |
| S46 | 2  | blades same pyrolysis same mix        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/16 08:20 |
| S47 | 1  | "4308103".pn. and agitate             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/16 09:03 |

## EAST Search History

|     |     |  |  |    |    |                  |
|-----|-----|--|--|----|----|------------------|
| S48 | 35  | ("2886122"   "2993843"   "3020212"   "3098458"   "3954069"   "4084521"   "4301750"   "4361100"   "4504222"   "4759300"   "4802424"   "4821653"   "4917023"   "5088424"   "5143000"   "5176087"   "5337684"   "5372077"   "5376340"   "5410973"   "5411714"   "5619938"   "5653183"   "5921763"   "6226889"   "RE33776").PN. OR ("6619214").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                     | OR | ON | 2006/09/23 16:19 |
| S49 | 57  | ("3362887"   "3376202"   "3768424"   "3774555"   "3777676"   "3785306"   "3794565"   "3843457").PN. OR ("4084521").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                     | OR | ON | 2006/09/23 16:29 |
| S50 | 24  | "198"/\$.ccls. and screw and paddles and brushes   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/23 16:38 |
| S51 | 140 | 198/467.1.ccls.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/23 16:41 |
| S52 | 210 | 198/550.1.ccls.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/23 16:54 |
| S53 | 44  | 198/545.ccls.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/23 16:57 |
| S54 | 249 | 198/625.ccls.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/23 17:01 |

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|     |     |                       |  |    |    |                  |
|-----|-----|-----------------------|--|----|----|------------------|
| S55 | 359 | 198/657.ccls.         | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/23 17:01 |
| S56 | 0   | ("1579970").URPN.     | USPAT  | OR | ON | 2006/09/23 17:18 |
| S57 | 224 | 110/286.ccls.         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2006/09/23 17:19 |
| S58 | 90  | 198/459.3,459.4.ccls. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/01/31 16:00 |
| S59 | 35  | 198/550.6.ccls.       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/02/01 06:58 |
| S60 | 454 | 198/624.ccls.         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/02/01 07:03 |
| S61 | 248 | 198/625.ccls.         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/02/01 07:10 |
| S62 | 541 | 198/657,661.ccls.     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/02/01 07:35 |
| S63 | 458 | 198/662,676.ccls.     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/02/01 07:53 |
| S64 | 181 | 198/659,660.ccls.     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | ON | 2007/02/01 08:16 |



## EAST Search History

|     |     |                     |   |    |    |                  |
|-----|-----|---------------------|---|----|----|------------------|
| S65 | 354 | 198/676,459.3.ccls. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/01 08:16 |
| S66 | 2   | "5017269".pn.       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 12:49 |
| S67 | 2   | "4084521".pn.       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 12:49 |
| S68 | 2   | "6517232".pn.       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 13:44 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S69 | 69 | (US-20050039651-\$ or US-20020195031-\$).did. or (US-4781796-\$ or US-5697168-\$ or US-1235427-\$ or US-5017269-\$ or US-4009667-\$ or US-1407372-\$ or US-5871619-\$ or US-0846444-\$ or US-4308103-\$ or US-1650191-\$ or US-5198018-\$ or US-2991870-\$ or US-3997406-\$ or US-4908104-\$ or US-4084521-\$ or US-1128584-\$ or US-4639217-\$ or US-4584060-\$ or US-3220539-\$ or US-5078836-\$ or US-2365679-\$ or US-2610739-\$ or US-6619214-\$ or US-2756971-\$ or US-3110652-\$ or US-4686008-\$). did. or (US-4628828-\$ or US-0823418-\$ or US-4030984-\$ or US-0305142-\$ or US-4261795-\$ or US-5707448-\$ or US-5222935-\$ or US-1023888-\$ or US-5279234-\$ or US-0241278-\$ or US-5154326-\$ or US-3952857-\$ or US-5082534-\$ or US-0952555-\$ or US-5851361-\$ or US-1579970-\$ or US-3626875-\$ or US-2507245-\$ or US-6349658-\$ or US-1248992-\$ or US-3916807-\$ or US-2734329-\$ or US-4617177-\$ or US-4597672-\$ or US-4528098-\$ or US-4274751-\$ or US-3020212-\$). did. or (US-3787292-\$ or US-1767248-\$ or US-5273149-\$ or US-4408944-\$).did. or (US-3110652-\$).did. or (GB-2089759-\$ or WO-8404955-\$ or FR-2616420-\$ or GB-2139603-\$). did. or (JP-63212614-\$ or JP-01247313-\$ or JP-60183416-\$ or JP-53011477-\$).did. or (US-20050039650-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/11/01 13:37 |
| S70 | 12 | S69 and paddle   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/11/01 13:37 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S71 | 69 | (US-20050039651-\$ or US-20020195031-\$).did. or (US-4781796-\$ or US-5697168-\$ or US-1235427-\$ or US-5017269-\$ or US-4009667-\$ or US-1407372-\$ or US-5871619-\$ or US-0846444-\$ or US-4308103-\$ or US-1650191-\$ or US-5198018-\$ or US-2991870-\$ or US-3997406-\$ or US-4908104-\$ or US-4084521-\$ or US-1128584-\$ or US-4639217-\$ or US-4584060-\$ or US-3220539-\$ or US-5078836-\$ or US-2365679-\$ or US-2610739-\$ or US-6619214-\$ or US-2756971-\$ or US-3110652-\$ or US-4686008-\$). did. or (US-4628828-\$ or US-0823418-\$ or US-4030984-\$ or US-0305142-\$ or US-4261795-\$ or US-5707448-\$ or US-5222935-\$ or US-1023888-\$ or US-5279234-\$ or US-0241278-\$ or US-5154326-\$ or US-3952857-\$ or US-5082534-\$ or US-0952555-\$ or US-5851361-\$ or US-1579970-\$ or US-3626875-\$ or US-2507245-\$ or US-6349658-\$ or US-1248992-\$ or US-3916807-\$ or US-2734329-\$ or US-4617177-\$ or US-4597672-\$ or US-4528098-\$ or US-4274751-\$ or US-3020212-\$). did. or (US-3787292-\$ or US-1767248-\$ or US-5273149-\$ or US-4408944-\$).did. or (US-3110652-\$).did. or (GB-2089759-\$ or WO-8404955-\$ or FR-2616420-\$ or GB-2139603-\$). did. or (JP-63212614-\$ or JP-01247313-\$ or JP-60183416-\$ or JP-53011477-\$).did. or (US-20050039650-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/11/01 15:12 |
| S72 | 0  | S69 and atomization  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/11/01 15:12 |
| S73 | 0  | S69 and atomize  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/11/01 15:13 |